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<110> D
              END, ANITA
              KARL-DIETER
      KOETTER, PETER
<130> 146.1353
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<120> METHOD FOR SCREENING ANTIMY COTIC SUBSTANCES USING ESSENTIAL GENES FROM S. CEREVISIAE

<140> 09/674,109 <141> 2001-06-21

<150> PCT/EP99/02722

<151> 1999-04-22

<150> EP 98402254.1

<151> 1998-09-11

<150> EP 98401007.4

<151> 1998-04-24

<160> 191

<170> PatentIn Ver. 2.1

<210> 1

<211> 59

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: primer YLR243w-S1

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<210> 2

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer YLR272c-S1

<400> 2

tttgggtctc gcactttctc agtcttccaa ctaatttctc cagctgaagc ttcgtacgc 59

<210> 3

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

4223 Description of Artificial Sequence: primer YLF:275w-S1 <400 - 3 politicate atgregiate titeatetta accattitta caectgaage ticegiacee 59 -1210 + 4. <.111 - 61 4.1. DNA %313 · Artificial Sequence <1.120 > HA23+ Description of Artificial Sequence: primer YLF.275w-S2 -400 - 4Sassigataes tgaatcacct ottaagaata gtttasttat gcataggoca otagtggato 60 5.3 4216 × 5 -211x E9 +.12+ ENA +113 Artificial Sequence <1220> %223> Description of Artificial Sequence: primer YLF276c-S1 4400 > 5 ettimaacqqq totactitac cattotitgg ottactgact cagotgaago ticgtacgc 59 <01.05 6 <211> 62 4212> DNA <213> Artificial Sequence -12. 11. 10.130 Description of Artificial Sequence: primer YLF276c-S2 -140 F agotatgaga aaaagtotgt ggaaggogot tatattgaog goataggooa otagtggato 60 τq 62 F2100-7 -2115-59 <!:III> DNA Artificial Sequence 4323> Description of Artificial Sequence: primer YLF317w-S1 14002 7 stgesatett etgecaccae titgicette titettgatg cagetgaage tiegtaege 59 <2100 €

•

```
<2110 59
30123 ENA
Range Artificial Sequence
-127.00-
32.33 Description of Artificial Sequence: primer
      YLR359w-S1
914001 E
quotattyct gagaaggaat tgggcttaac tgttgttaca cagctgaagc ttcgtacgc 59
+:210>9
+12111 + 6.0
HILL FNA
+ 713 · Artificial Sequence
-1200-
 . 23. Lescription of Artificial Sequence: primer
      YLE359w-S2
2000 0
auctigabit gitcatogit taggiactit tggaaaggit gcataggoca ctagiggate 60
0012 - 10
ATTI EN
TIL UNA
Halls Artificial Sequence
31. 13 Dec
<113 Description of Artificial Sequence: primer</p>
      YLF.373c-S1
\pm (400 \times 10)
Acadacangt acagagtyot gaaagaggat tygtyttyoo cagotyaago ttogtaogo 59
10111 × 62
COID DNA
4.11? Artificial Sequence
. . . . . . .
Fill: Description of Artificial Sequence: primer
      YLR373c-S2
- 4JJ - 11
paaabaqaet tigitisetti gitatgieeta tiggaagatae geataggeea etagiiggate 60
11.7
4010 10
4211 - 59
4.111. DNA
<213 · Artificial Sequence
1221+
<223 - Description of Artificial Sequence: primer
      YLR424w-S1
```

<400 → 12 gabatgabat acactaatga tgccttgaaa actagtageg cagetgaage ttegtaege 59 <210 - 13 40.111 ± 62 40712 - DNA Hill3 - Artificial Sequence -1.11) -<223 Description of Artificial Sequence: primer</p> YLR424w-S2 $\pm 3400 + 13$ attamptaett totagaggte aagggoedat aaataaattg gdataggeda etagtggate 60 4210+ 14 40011 - 59 HILL FINA 4313 Artificial Sequence <2200 € 4223 Description of Artificial Sequence: primer YLE437c-S1 $<400 \times 14$ attytgeaag tetgttaaag tettetettg gateeattaa eagetgaage ttegtaege 59 KI10: 15 40112 60 SITI - DNA 3.13 Artificial Sequence All Ar Description of Artificial Sequence: primer YLF437c-S2 F4000 15 caticacacae taatacagga acaaacaaga ettaatggae geataggeea etagtggate 60 tq H.3189 16 4001 DH 59 - LILL - LIA ... 18 Artificial Sequence -1.200*123> Description of Artificial Sequence: primer YLR440c-S1 -1400 16 ttyopaagaa aattycayta aaaatyttyy aayaycaact cayotyaago ttoytaogo 59 -1.100-1" -.112 F1 · 212> ENA

ī

```
<2130 Artificial Sequence
42200
HUBBER Description of Artificial Sequence: primer
      YLR440c-S3
-. 41 (i) - 17
generaatte tagtetgete cattgegatg taacaattte geataggeea etagtggate 60
*: q
3210× 18
-00:12 - 59
AIDINE DNA
3.13 Artificial Sequence
1.. W Description of Artificial Sequence: primer
      YFL024c-Si
234000 18
\odotgatgaatti tiotgggtta tagaagagtt otgttogot oagotgaago tiogtaoggo=59
402100-19
s. The el
-11. - INA
4.13 Artificial Sequence
4.2202
<
      TML049c-S2
44499 14
Principtoral organizactio geographica angelaggeto gentaggeon etageggate 60
50
                                                                    бΞ
41.1 09.20
\pm 1.11 \pm 61
HILLER ENA
-0.13> Artificial Sequence
SLIP Pescription of Artificial Sequence: primer
      YFL024b-SL
\{(1,1)(1,1),\dots,(2,n)\}
ababbttisaa abgotataga gatoaatgad ggttogbata goataggoda btagtggato 60
1.0
                                                                    62
80.100 0.1
4.11 - 53
HILL INA
%313   Artificial Sequence
<223 - Description of Artificial Sequence: primer</p>
```

YFR003c-S1

```
44005 11
ngtogaaqaq gitcccqcaq tittgcagci tegagcaaci cageigaage itegiacge 59
H12100-12
H11111 61
KULLING ENA
30130 Artificial Sequence
-0.1200-
</
                   YFR.003c-S2
-C40 +- 0.1
_{
m auc} relating total getting that a agricultaneous grant gr
50
\pm (2140 \pm 1.3)
-001119 53
HOLLS INA
Hill3 Artificial Sequence
322.80 Description of Artificial Sequence: primer
                   YFE027w-S1
-1400-13
 aatqaaaqct aggaaatogc agagaaaagc gggcagtaaa cagctgaagc ttcgtacgc 59
\{111,77\}, 124
 \pm 2149 \pm 6.1
HALL - INA
 Hills Artificial Sequence
1.12.
 4123 Description of Artificial Sequence: primer
                   YFE027w-S2
<400.7 24</p>
 antitggitty ogatacceaa etteettyet yteetyeaca yeatagyeea etaytyyate 60
 1.1 - 25
 3011 × 59
el li ENA
4213 Artificial Sequence
- 1 to 1
  1882 - Description of Artificial Sequence: primer
                   TFF.042w-S1
-1400 - 15
 Artitignace aatggeaata tgeetgtgat aaagataagg cagetgaage ttegtaege 59
40.113 - 26
  1011 - 62
 KILLI DNA
 <213 Artificial Sequence
```

4122304 -1230 Description of Artificial Sequence: primer YFR042w-S2 < 400 - 26 immigaagti attiggitigo tiagattoca ogggiticaaa goataggoca otagitggato 60 $\times 1.10 \times 17$ +1.11.4 ±3 HILL: DNA +21% Artificial Sequence +12000+ +LAX* Description of Artificial Sequence: primer YIL109c-S1 <14000 27</p> tristcatea caagaaacgt gtttacccac aageteaget cagetgaage ttegtaege 59 មានគ្រង់តាម និង -2119 59 -1212 DNA <213> Artificial Sequence +100000 All & Description of Artificial Sequence: primer YML077w-S1 414104 15 arogygatat atteatiting gatetitigat aggeatigta cagetgaage tiegtaege 59 <2105 29 <02149 62 - 212- гла Artificial Sequence $+ - 1 \subseteq J(s)$ FILES Description of Artificial Sequence: primer YIL109c-S2 -0400N 29 tratyattig taagaattot otgtaacttt ogttattoaa goataggoda otagtggato 60 62 9721 No. 310 P211 + 89 - III- INA Artificial Sequence +1.57508+2135 Description of Artificial Sequence: primer YIL091c-S1 -1400 > 30 aqtqacaqtt ctgtgaggga aaagaatgat aatttccgtg cagctgaagc ttcgtacgc 59

```
-1010H 31
·11111 62
· . 1J · ENA
4.13 Artificial Sequence
-.. 2 -> Description of Artificial Sequence: primer
      Y:L091c-S2
-14000-31
_at* ¡tawaa ttcaggattg tttggaggct tataaaaaac gcataggcca ctagtggatc 60
εq
R2140-37
02110-59
el ll'e DNA
4.14 Artificial Sequence
3.338 Description of Artificial Sequence: primer
     YIL083c-S1
140 12 32
acci :tacci qtqctcaaca qacctcaaat tcatacqtct caqctgaagc ttcqtacqc 59
1.124 33
11119 EL
PLIDE DNA
%3.130 Artificial Sequence
\{1, 1, 2, 0\}
*123 Description of Artificial Sequence: primer
      YJL083c-S2
P40 1- 35
_{\odot Gal} , jack to loggestiate ateleticaa ligataligity gealaggeda clagitygate 60
10
HIIIH 34
HIIIH 59
HILLS EMA
1713 Artificial Sequence
ALL We Description of Artificial Sequence: primer
     Y:L019w-S1
- 400 - 54
H121004 35
4001114 ED
HIIII DNA
-:...3 · Artificial Sequence
```

-1220.-

<p YIL019w-S2 -:4015 35 tagespacagg atticititt gecattaaat thaceactee geataggeea chagtggate 60 $(-1,1,1,0) \leftarrow (2,\epsilon)$ 4.11111 50 HALLE DNA Antificial Sequence +1.11.100+ HANGE Description of Artificial Sequence: primer YIL104c-S1 41400G+ 36 tocceptiact atttaagatt aagatttoot papgaattaa pagotgaago ttogtapgo 59 42169 37 421124 62 HILL THA Halficial Sequence 1. 11. No Description of Artificial Sequence: primer YIL104b-S. 34000 37 pergatabet graatgattg caatettgat gagagagetg geataggeca etagtggate 60 00100-35 H. 11.4 54 HILL BUA 30.130 Artificial Sequence 31.11. THE ADJ No Description of Artificial Sequence: primer TIR010w-Si 34 38 38 atmasticity; aacchacaca aacgytotoc ygtacyccyc cayotyaago ttogtacyc $5^{\rm sp}$ $\{\{1,2,3,3,\ldots,4\},\{2,3\}\}$ $\text{sull}: \mathbb{N} \to \mathbb{K}_{+}$ HUNDA DNA Antificial Sequence 42234 Description of Artificial Sequence: primer YML077w-S2 <4J⊅ 39 ttotattggt gatotttott gtocottgac ototoattto goataggoda otagtggato 60tg

```
<2165 40
4.1111 6.1
KHILL DNA
<:31% Artificial Sequence</pre>
422an
HEALTH Description of Artificial Sequence: primer
      YIR010w-Si
-(40%-40)
accordagete ategaetitt gittetaaet tigieteaae gealaggeea elagiggale 60
12116-41
:211: E4
:211: DNA
3.13 Artificial Sequence
\cdot = 0.00
A. Be Description of Artificial Sequence: primer
      Y:R015w-S1
44000 41
producting acceptation tagattalance tacctotace cagetgalage thegtalege [59]
4.
421114 CI
HILLS HUA
SLIB Artificial Sequence
<!li>: Description of Artificial Sequence: primer
      YIED15w-S2
44000-42
utttocaqtt tttttqqqqt ccataacaac cqatqqcatt qcataqqcca ctaqtqqatc 60
tig:
43174 43
9.114.59
 TILL DUA
 ...l: Artificial Sequence
Will's Description of Artificial Sequence: primer
      TPL233w-S1
440 6 43
ardroactag gtcagtcoaa aaaactggac gtaactgttg cagotgaago ttogtacgo 59
41.11 - 61
HILL - DNA
HALLS - Artificial Sequence
-1220 -
<223 Description of Artificial Sequence: primer</p>
```

YPL233w-S2

	44 toot ccaggaagto cattaagogo ttgacctttt gcataggoda	ctagtggatc	60 62
19 <02100 <00110 <021.0 <02130	59		02
	Description of Artificial Sequence: primer YFL146c-S1		
04000 000aa0	45 taat otaaccaaga aaccatotoa atacaaacag cagotgaago	ttogtacgo	5,3
	k2		
	Description of Artificial Sequence: primer YFL146c-S2		
04(0-0- t*tgaa tg	46 gtos ttatgtgtod actiticagi gattiticigo gcataggoda	ctagtggatc	ნ0 წ2
01. 1.00 02.110 02.120 02.130 03.130	E #		
	Description of Artificial Sequence: primer YFL126w-S1		
-io - ∍tgalog	ar Gaat opetaggtat ogaacagtat aaabtgtoag bagotgaago	ttogtaege	53
<pre>40.100 40.110 40.100 40.100 40.130 40.1</pre>	eg		
	Description of Artificial Sequence: primer YFL126w-S2		
<40)r tatqtt tq	49 aata otttoatoad adgatdaaaa aatgtatdda gdataggdda	ctagtggatc	бÜ 62
<21 L/	49		

```
K22115 E9
HRALL INA
+2213: Artificial Sequence
+:22 Pi-
H2220 Tescription of Artificial Sequence: primer
      YFL093w-S1
- (국)()(15 - 4절
_{
m Sauget}thaca agaatcagag egttetatat gegtaaagtt cagetgaage ttegtaege -59
30000 50
32119 59
-:_:. - ги:А
Hills: Artificial Sequence
1330 Tescription of Artificial Sequence: primer
      TML093w-S1
4000 - 50
\mathfrak{q} maichida atat\mathfrak{q}ccada daagadatct aagagcagat cagetgaage ttegtaege -59
\pm 121.5 \pm 51
0011 + 00
0011 + 00A
H. 13 Artificial Sequence
 ::::--
Hard : - Description of Artificial Sequence: primer
      YFL093w-S2
\pm (400 + 51)
compagatoty tottacogae accaegetta ecactgaata geataggeea etagtggate 60
5.3
ч. 1. ч гиА
Hall Artificial Sequence
-122:
HOUR Description of Artificial Sequence: primer
      YPL063w-S1
 🕾 lagnato dagaagabtt ttaadaagtt attdaagttt dagdtgaagd ttdgtadgd 59
40000 - 53
40119 KI
ADDD - DNA
<
1027.4
<223> Description of Artificial Sequence: primer
      YPL063w-S2
```

	4000 53 gatteagea atettettet tittettite etetteaaat geataggeea etagiggate g	60 62
•:. •:.	210: 54 217: 59 212: ENA 213: Artificial Sequence	
	1.6. 223 Description of Artificial Sequence: primer YPL024w-S1	
ä.		59
:. •:,	.110-55 111-6 110-ENA 113-Artificial Sequence	
vi.	<pre>3.3.0. 3.3.0. Description of Artificial Sequence: primer</pre>	
	400. 55 ottytgagt octtoaatat gaaaacgood otattgaaca goataggooa otagtggato g	60 63
* *1.	110> 56 111> 59 212> DNA 113> Artificial Sequence	
×1.	DIA. Discription of Artificial Sequence: primer WPL000c-S1	
	4°0/-56 cagstgaag tagataagca ooggaacaca otacagtato cagotgaago ttogtaogo	59
·:.	1100-57 1110-62 2120-ENA 2130-Artificial Sequence	
	IDDA DBB Description of Artificial Sequence: primer YPL030c-S2	
	400/ 57 oggittaaaa toaaatgggo aataaatott otoatootaa goataggooa otagtggato d	60 62
€.	211 + 50 211 + 50 212 + DNA	

```
-:213> Artificial Sequence
-:22(c)-
+ MMA: Description of Artificial Sequence: primer
      YPL012w-S1
1 4 (1) (1) 1 + 1
atgratosag acaaagtige tittettita gagetggagg eagetgaage tiegtaege 59
H10100 59
+12110 b2
RITTER THA
213 Artificial Sequence
-1.1.1.1.
HAMRY Lescription of Artificial Sequence: primer
      YFL012w-S2
44 134 33
antigaaltt tyggaldtic tiattatytt tyddaatott ydatagydda diagtygaid 60
+1.211\,\mathrm{M} < +0.0
41/1112 5/4
el LES FORA
WLIBS Artificial Sequence
-11.11
HODB: Description of Artificial Sequence: primer
      YPL007c-S1
-149E- 60
subgratett gatoacggga catafottta catgogttgt cagotgaago ttogtabgo 59
1.117-61
\pm 1.111 \pm 0.1
11.A
H. 13 Artificial Sequence
HOLDS Description of Artificial Sequence: primer
      YML093w-S2
1 1 1 1 1 1 1
canaiga ca ataactigge eiggettagi caigaitete gealaggeea elagiggale 60
24
HILLOH 62
<2111 62
HIZIZE DNA
<213 - Artificial Sequence</p>
-:2:::--
#12.13 * Description of Artificial Sequence: primer
      YFL007c-S2
```

<400 + €2

```
gga:ttattg gtagatagaa aggaatttga ggattggaag gcataggcca ctagtggatc 60
                                                                            б.::
tia
<.11 % 63
4.1119 3.4
1.11. - DNA
4.11 % Artificial Sequence
+:22 %
4.02 - Description of Artificial Sequence: primer
       YPE048w-S1
_{
m 4.54} batiga gcaagaaaat egteateete tatggategg bagetgaage ttegtaege _{
m 59}
4.11 o £4
\leq \pm 1.11 + \epsilon I
HILL FINA
4.13 Artificial Sequence
1.21.
3.25 Description of Artificial Sequence: primer
      TPF048w-S2
\pm 40 H \pm 4
_{
m BR}tiugtiat thochdaoch aatobodata aghaghothg goahaggeda chaghggahd _{
m BR}
300100 65
42112 59
H. L. FNA
Will: Artificial Sequence
41.275
4.20 Tescription of Artificial Sequence: primer
       TFF072w-S1
\cdot (-1)(0)(0), \qquad \varepsilon, t_{\lambda}
nonetcawag waagetacaa caggatatog ataagetttt cagetgaage ttegtacge 59
30 100 EE
01115 FI
..120 DIA
30.13 Artificial Sequence
·(120)·
00230 Description of Artificial Sequence: primer
      YFF072w-S2
140 At 66
_{
m 4000ACM} typical attoctygity giaacittito gatticitta goataggoca otagitggato 60
110
\sim 1.10 \cdot 67
H. 11: 59
1.12 LNA
%213> Artificial Sequence
```

2.70 HALL: Description of Artificial Sequence: primer YPF.082c-S1 1400 - 67 onnegantos tgaaagagta aggaactitg cagttattia cagctgaagc ticgtacgc 59 -0310-63 300117 FD DNA +213 + Artificial Sequence -1220+223 / Description of Artificial Sequence: primer TPF082c-S2 74007 / 68 baastaaagtt caacttgttg ttgttccctg taccaaaatc gcataggcca ctagtggatc 60 1 × 211 × 69 3211× 59 HILL BNA Hills Artificial Sequence 30220× HALLY Description of Artificial Sequence: primer YPF085c-S1 3400× F9 statacatto titogaaaga otocatgotg ogaattittig cagotgaago titogiacgo 59 -1.114×70 02112 62 -1711 DNA %113> Artificial Sequence +11 3 Description of Artificial Sequence: primer TPRO85c-S2 3.40 Ex. 70 tecesaettta tagttatggg atttegaget ggatteggta geataggeea etagtggate 60 tia H2105 71 HL112 59 HILLI FNA WILL: Artificial Sequence *1273> Description of Artificial Sequence: primer YML114c-S1 -:400 → 71 sacytgtaat tgagggacte ataaagggea atgaetteea eagetgaage ttegtaege 59

```
·:21(. 7.
1.1111: 53
HITTER FINA
+1713 Artificial Sequence
-11.200-
*123 Description of Artificial Sequence: primer
      YPR105c-S1
4400 - 71
Hydrigatica togagggoda attytotaaa aatotagdaa dagotgaago ttogtadgo 59
HI 10H 03
80.149 \pm 62
HIJ12: DNA
H2130 Artificial Sequence
-1.20-
4.23 Description of Artificial Sequence: primer
      YPE105c-S2
-:4000-73
charatteta teaatettea tatttetage titaattett geataggeea etagtggate 60
HI2101-74
1.11% 59
...1..- 101A
at. 1 · Artificial Sequence
+1.1.2 A+
HAME: Lescription of Artificial Sequence: primer
      YPE1125-S1
340 St 74
Datigioaag ggttigooog totatotaac agatgataat cagotgaago tiogtacgo 59
. · · · 1 · · · · ¬ ē,
- L11 - 5 -
-1..1. ENA
Half : Artificial Sequence
41.12 14
HARRY Description of Artificial Sequence: primer
      YPE137c-S1
3145 × 75
_{
m Atg}, _{
m Id}_{
m Atg} thacceaaca gaaaaagagg aaaagatoca cagotgaago thogtacgo _{
m S9}
121 - 76
\pm 0.114 + -62
SILL FINA
4213 Artificial Sequence
4221.
<223. Description of Artificial Sequence: primer</p>
```

k:400. gaaadd tg	76 ottog tittottoat catocacato cagtitotit gcataggoca	ctagtggatc	60 62
:210+ :211+ :212+ :213+	5.4		
H220 +	Description of Artificial Sequence: primer VPF143w-S1		
45gg (0	ny eroca agcacagagt agacactaag gataagaaaa cagctgaagc	ttogtacgo	59
00110 02110 00120 00130	ell.		
HIQ230 HIQ230	Description of Artificial Sequence: primer YPF143w-S2		
nd 339 theath ta	ns drog ottootgogg cagotttaad taaatocaaa goataggoda	ctagtggatc	60 62
+02100x +07110+ +02120+ +02130+	59		
-1.1201- -1.231-	Description of Artificial Sequence: primer YPF144c-S1		
- 4000 - 1000	". gaaaa tgttactcaa ttggaagaag atgagacaga cagctgaagc	ttogtacgo	59
+1, 100+ + 2,110+ + 2,120+ + 2,130+	€		
+ 2000 + 31230	Description of Artificial Sequence: primer YPF144c-S2		
-:400:- beat.ge tg	80 stacs ccaggeaagt agasgttace ttgggatgae geataggeea	ctagtggatc	60 62
<2100	81		

```
<:211> €2
KO125 DNA
HILLIS Artificial Sequence
11.201
+77270 Description of Artificial Sequence: primer
      YML114c-Si
44000 81
pacitytagt agcarcyata ttggttytyt tatytyctac ycatagycca ctagtygatc 60
54
H00105 82
RI 112 59
HI 150 INA
4.135 Artificial Sequence
41.200-
ALAST Description of Artificial Sequence: primer
      TFR169w-S1
14000 81
thitiabatoc tigaactigood attataataa otggotttigg cagotigaago titogtaogo 59
4.10 + 33
 0.11 + €1
\leq 1.0 \leq 100
CDIB · Artificial Sequence
31.20 m
81238 Description of Artificial Sequence: primer
      TPR169w-SI
4400> 83
attentiate coatgeteat acaqqteett tittitgitiq qeataqqeea ctaqtqqate 60
                                                                      62
10.1
4011 - 94
H. 11 + EM
4. 1.1 · ENA
40135 Artificial Sequence
4.23 - Description of Artificial Sequence: primer
      YML127w-S1
(4)) (4)
propriating grad-coagt aagogaggea beegecadaa bagetgaage tregtaege 59
H111 + 35
4.111 - 62
<212 - DNA
*213* Artificial Sequence
<221.
<223 - Description of Artificial Sequence: primer
      YML127w-SJ
```

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<4005 85
ntaadoocga ogtgttttoo atgtattoag acaatgotaa goataggoca otagtggato 60
- 2100 8H
.2115 Fa
-213- DNA
Alla Artificial Sequence
-.0200-
HM230 Description of Artificial Sequence: primer
      YMP032w-S1
macigniat gaagettgtt titgggaded aaacgadaat dagetgaage ticgtacge 59
- 11 H- 47
-111 - 62
- 112 - DNA
+.13+ Artificial Sequence
+.28+ Description of Artificial Sequence: primer
      :MF032w-S2
+401 + 37
magawaasta gtaaaattga tatacatoga gatcaaagac gcataggcca ctagtggato 6\%
7.47
+ 21 0+ 38
5.0117 59
FILL DNA
+313 · Artificial Sequence
- 112 ji +
+ 323 - Description of Artificial Sequence: primer
      YMF093w-S1

 400 + 68

anglogably staggestag aalaateast tegaaggets bagelgaage tiegtasge 59
 .110 - 39
 .111 · · ·
 MIL - INA
 313 Artificial Sequence
0.023 - Description of Artificial Sequence: primer
      YMF.093w-S2
1400 - 39
alignichaat toagtagogg ototaatgta gattoatoto goataggoba otagtggato 60
٠. ٦
-3210 - 30
<2112 59
```

```
4212 DNA
3213 Artificial Sequence
1.12
CARRY Description of Artificial Sequence: primer
      TMR131c-S1
44011- 40
ottitaacito ottitigodag igaadaaada ataatigigg dagotgaago itogiadgo 59
H101 0+ 91
1011 - ED
-Jille INA
1213 Artificial Sequence
#2230 Description of Artificial Sequence: primer
     YMF131c-S2
414011 - 41
_{
m eff} matega getcaacgag gaacaagata gagtegtoto goataggoca otagtegato 60
11:1
91114-0-7-11
32112 59
12120 - SMA
(213) Artificial Sequence
HALLEY Description of Artificial Sequence: primer
      YMF.185w-S1
-14000 - 900
atcaacatac acgatatatt gaatacaaga oogaagotca cagotgaago ttogtacgo 59
HU10+ 93
ennine en
AMA FMA
+ 21 3 Artificial Sequence
3 M. 163
+21E+ Description of Artificial Sequence: primer
      YMF185w-S2
40 1-35
-0.01.00- 94
H2011H 59
MILT FINA
Martificial Sequence
32218
<223 Description of Artificial Sequence: primer</p>
      YMF.212c-S1
```

```
<4005 94
policityaac ttaaaqaatq taaatottoa tttgogtott cagotgaago ttogtaogo 59
42100-95
HIII 3/4
COLLEGIA
<:Il3> Artificial Sequence
×12200×
RELEASE Description of Artificial Sequence: primer
      YDR499w-S1
4(4000) 45
angagacgay asacggtggg tgaattttct tcagatgacg cagotgaago ttogtacgo 59
422.00- 96
F11111 62
-.12- DIA
 Jls: Artificial Sequence
 1.230 10 scription of Artificial Sequence: primer
      YMF.312b-S2
·[작()이) - 역6
oqqatgatqt toacaccaaa acatcagaaa ctggtcaatc gcataggcca ctagtggatc 60
+ 1110+ 97
+ 1110+ 59
- 1110+ 50A
+ LLE: Artificial Sequence
 1220%
4023 Description of Artificial Sequence: primer
      YMF.213w-S1
 400-40
anangtuwaa ggoggtgtat ggaccaatgt ggaggatoag cagotgaago ttogtacgo 59
 ्रेट्टीट्रेट अस
4.11.114 Kun
 71... DIA
 1139 Artificial Sequence
+ AAR Description of Artificial Sequence: primer
      YMF.213w-S2
- 4000 95
gatqiaaotq ticaatagad todactittg attggatoga goataggoda diagtggato 60\,
                                                                        62
۲.
40.01 0 - 44
+12115 54
4012 - DNA
3213 Artificial Sequence
```

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<22008
<223: Description of Artificial Sequence: primer
      YMFR18c-S1
-:400:- 99
gactbaaatg cattagagtg atcaactcta caacttttac cagctgaagc ttcgtacgc 59
:210:- 100
21.11 61
AUG - 02.22.5
ROLL Artificial Sequence
H22004
+1123 Pescription of Artificial Sequence: primer
      YMF218c-S2
1400 - 190
paappoart: gacggaactg tacgaacggt taacaggott goataggoca ctagtggato 60
1.1
0.010 - 193
-0.011 + 5/4
41.112 - DNA
3213 - Artificial Sequence
8023 - Lescription of Artificial Sequence: primer
      YMF.281w-S1
-14(1-14)1
უ.gaagaaaa gitaaatgaa gatgtigagg ogtacaaagg bagoigaago tiogtacgo 59
H2105 102
3211 × 63
\leq 1.12 \leq \mathrm{PMA}
HILLS Artificial Sequence
4.13 - Description of Artificial Sequence: primer
      TMF.281w-S2
-1.4(11) \cdot 1.111
immangtatt gtgcatgtgt attoataagt gaaagottgt goataggooa otagtggato 60
                                                                         62
÷. 7
0.010 / 103
4.:11 - 59
HOID - DNA
Hall3 - Artificial Sequence
-1.1.1.10 a
3223 Description of Artificial Sequence: primer
      YMF.288w-S1
<400 - 103
gaaaasstgs agaaagaags tgcacgtatt ggtgagaacg cagctgaags ttcgtacgs 59
```

```
421 m. 104
-1.711 - 62
1.1. DNA
4113 · Artificial Sequence
4 23 Description of Artificial Sequence: primer
      MMR.288w-S2
4400 - 104
beauapotto taaaatacgo ataatagoat gtggtgaagt gcataggoca ctagtggato 60
                                                                     62
t g
H010 - 105
H1111 F9
4.011 - DOA
A. Lise Artificial Sequence
+203 - Description of Artificial Sequence: primer
      YMF290c-S1
-0400 > 105
twagittinab giotittiggt attiggegtt titlocactgg cagotgaago tilogiapgo 59
J112-106
HIII. 59
CILIP DNA
Antificial Sequence
41220%
01030 Description of Artificial Sequence: primer
      YML049c-S1
440 % 10€
anitheologic cattleagga aagteteagg aaatttteae eagetgaage ttegtaege 59
H. 189-107
HI211H 62
HILLS INA

Artificial Sequence
HALLES Tescription of Artificial Sequence: primer
      YMF290c-S2
+(400) 107
gataagetga geaatattaa caggagaagt atggetaeee geataggeea etagtggate 60
υq
                                                                     62
+02100-108
30000 59
HILL ENA
40 180 Artificial Sequence
H11200
```

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3223 Description of Artificial Sequence: primer
      YMP211w-S1
<400 / 108
agagagcasa coattigact actoaattoi toaatataca cagotgaago tiogiacgo 59
0.210 / 109
.211 - 62
dilid - DNA
Halls - Artificial Sequence
HIBB: Description of Artificial Sequence: primer
      YMF.211w-S2
1400 - 109
attitiaatoa tottactoog tgaatoaggt toggaatgat goataggooa otagtggato 60
1.1
:210--110
4211 / 59
HICTOR DNA
3013 · Artificial Sequence
-1221-
Hills Description of Artificial Sequence: primer
      YDF196c-S1
+(400, -110)
atgottatga toaaattgtg ttatacttca aggacaaaat cagctgaagc ttcgtacgc 59
H210-111
\{(1111),(61)
el lus ma
HOLK: Artificial Sequence
-111 G1+
HIMBO Description of Artificial Sequence: primer
      YDF196c-S2
<4005 111</pre>
tticaatictg trogtataag tcaaccaatg tgctgttatt gcataggcca ctagtggatc 60
ta
                                                                   62
HIII CH 112
000000 EP
000000 DMA
HILLS Artificial Sequence
YDF299w-S1
- 4000 112
signiaaaat cactagegga teaaatttee gatategeea eagetgaage ttegtaege 59
+1.10 - 113
```

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-02110-60
-12120 ENA
+ 213 - Artificial Sequence
-1.12/11
+3.22 Hescription of Artificial Sequence: primer
      YDF299w-S2
84300 113
Badagating gatateateg titttaaeag estetaatte geataggeea etagtggate 60
*:4
0.814 + 1.14
41.111 - 194
5.21. 5 BUA
all to Artificial Sequence
3.20
HARRY Description of Artificial Sequence: primer
      YLE365c-S1
+1400 - 114
-muragadas occasagsag gaaggtgtag atgotaggtt cagotgasgo ttogtacgo 59
1110 115
\{1.11.11\},\ \ell L
-1.112 ENA
+218 Artificial Sequence
2.2
Additional Description of Artificial Sequence: primer
      YDE365c-S2
3437 × 118
thadtatuet tittattaac agaitticaac tigetiittei gealaggeea elagiggale 60
7.1
1.0116 116
51117 59
\text{-} 1.11.1 + \text{-} \text{FMA}
Bully Artificial Sequence
·1126•
HARRY LWashiption of Artificial Sequence: primer
      YDE396w-S1
3400-016
cagatacaet attgtggtgt aatotggaco ttgactgtet cagotgaago ttogtacgo -59\,
\pm 1.21 \leftrightarrow 1.17
4211 - 1 -
-1.11.1 DNA
4213 Artificial Sequence
-1.120
4223 Description of Artificial Sequence: primer
      YLF.222c-S1
```

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:4005 117
stot aangg tagtaagoda tadtaogtad aatatggatd dagdtgaagd ttegtadge - 59
310 - 119
4211 6.
HIRITH DNA
321 % Artificial Sequence
1.12 (+
4.02 + Description of Artificial Sequence: primer
      YDF.396w-S2
1400-118
taga yaaaas astgaatgat ettagegaee gtacaaaaaga geataggeea etagtggate 60
4019-119
41.1114 5.4
SILLS DNA
and the Artificial Sequence
-11.2-5-
4.28 Description of Artificial Sequence: primer
      YDF.407c-S1
\pm 14000 \pm 119
"to" Laadea titteecaage tatgitiggee batetaagat cagetgaage titegtaege 59
1111111111111
-.. 11. E.
HILLS BUA
SULE Artificial Sequence
-10201-
+223+ Description of Artificial Sequence: primer
      YDR407c-S2
-04000-120
Hataacaqas aagataacgt titicagagto gaaciggati gcataggcca ciagiggato 60
ξĢ
-1.10-111
07110-59
\cdot :: 1 ::: \cdot \quad \text{PNA}
-0713 Artificial Sequence
+0.2.8 Description of Artificial Sequence: primer
      YDF.416w-S1
-14000-111
Bott-Roatgg aaaagatata togagtattg gaaagaggag cagotgaago ttogtaogo 59
\pm 0.100 \cdot 1.12
-01110 E.I.
H212H DNA
```

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<213 Artificial Sequence
-1220 ·
3.223 Pescription of Artificial Sequence: primer
       YDR416w-S2
4441 112
	au_{\mathrm{constant}} and the tatticent of the same 	au_{\mathrm{constant}} and 	au_{\mathrm{constant}} and 	au_{\mathrm{constant}}
54
3.010 - 1.3
41.11.1 - 234
11112 - DOM
4.013 · Artificial Sequence
41.122.10
1323 Description of Artificial Sequence: primer
       YDF449c-S1
44000 113
_{
m SACA}toa tog attitutaata aigiogaaga caagaitacia cagoigaago tiogia_{
m SA}
300100-114
K2110 EI
KITIDE DNA
KULE Artificial Sequence
31.121 TV
WMB Description of Artificial Sequence: primer
      YDF4495-S3
14000 124
ataattaaat otagaattit ataootagga toatoitoig goataggoda otagiggato oldsymbol{60}
*: c1
+0.100 ⋅ 125
411110-59
HIME EMA
SULLE Artificial Sequence
31111EF
*.23 Lescription of Artificial Sequence: primer
       YDF141c=Sl
<400 - 1.5
thegraatet tigaatteig egatticate taccagegeg cagetgaage tiegtaege -59
01000-016
-11 111 €T
HITTEL BNA
 MIB: Artificial Sequence
-11200-
*1223: Description of Artificial Sequence: primer
       YDF141c-S2
H400H 126
```

cactaaagoo oottacaatt gaotcaaata ataaacaact goataggooa otagtggato tg	60 62
<pre>00160 127 00110 59 00110 ENA 00130 Artificial Sequence</pre>	
<pre>ALLEGA Lescription of Artificial Sequence: primer YOR324c-S1</pre>	
44000-127 aagaagootg aaaataogaa acaaacoggt gaagatgaco cagotgaago ttogtacgo	59
HUID 128 HUID 60 HUID EMA HUID Artificial Sequence	
WIRTS MINNS Description of Artificial Sequence: primer YMF049c-S2	
$\pm 400 > 128$ totigttotaa cataactagg toaatgatgg ctaagaacaa gcataggcca ctagtggato tg	60 62
00108-109 00110-00 00109-DNA 00139-Artificial Sequence	
<pre>+220> +223+ Description of Artificial Sequence: primer YDE304c-S2</pre>	
$\sim40\% \times 119$ saddactuat titggitgaa taaacgeett tigtitggag geataggeea etagiggate tg	60 62
+110> 130 +111> 59 +.110+ DNA +110+ Artificial Sequence	
<pre>%.dd** %L23* Description of Artificial Sequence: primer YOE325w-S1</pre>	
+400+ 130 gabattaata ogaaaatott taabtbagtt gotgaagtat bagotgaago ttogtacgo	59
+.211 + 131 +.211 + 62 +.212 + DNA +.213 + Artificial Sequence	

```
-12.76
H2D No Description of Artificial Sequence: primer
      YI-F 325w-SI
3,4000 131
acctogetga aagantotga atoottatot tettoatota goataggoda otagtggato 60
<:2100-136
H211H 59
HIZITIN DNA
Addition Artificial Sequence
. . . . . . .
ALUNG Lescription of Artificial Sequence: primer
       YDR398w-S1
+14000 - 132
atggattete ctgttctaca gtccgcttat gacccatcag cagctgaagc ttcgtacgc 59
\pm 0.11 Mod 193
\{(1,1,2,2,3,3,4,2,2)\}
\leq 1.11 \times 1.128
Hall to Artificial Sequence
HILL'S Description of Artificial Sequence: primer
      YDF398w-S1
-04008 133
ascenteacta talooggott octoologoo glogololigo goalaggoda olagitggato 60
42136 134
41110 59
HILLE ENA
HOLDS Artificial Sequence
422263
 1.70 Lescription of Artificial Sequence: primer
      YLF246w-S1
+14990 \times 124
argameareg awacaatact tgtaataaac awatcaggog cagotgaago ttogtaogo 59
H2186 195
-1.7.1.11 F.7
HILLE ENA
82139 Artificial Sequence
-1226-
#223% Description of Artificial Sequence: primer
      YDF.246w-S2
-:400 - 135
aacaygttag atottatagg catttocatt gagtaagatg gcataggoca ctagtggato 60
```

t t

```
412205
422 Description of Artificial Sequence: primer
      YDP361c-S1
-:40m- 140
ggtttaaget atcaaattaa atgatttaaa aaataggaag cagetgaage ttegtaege 59
1.10 141
1.11: 59
HILLID DNA
Mol 3 Artificial Sequence
HI 2 TO
ALM By Description of Artificial Sequence: primer
      YDF367w-S1
+(4(4)-141
atoracqtae titatacaat egataecatt teeactigit cajetgaage tiegtaege 59
\pm 0.11 \, \, \pm \, 142
40.011 - 72
- III. INA
Hill - Artificial Sequence
-1220-

#2233* Description of Artificial Sequence: primer
      TDF.367w-S2
H140 NH 142
attrighted acgreated tateaactaa atatttgggg geataggeea etagtggate 60
\pm 1216 \pm 143
+311 + 59
HOIL - ENA
+213 - Artificial Sequence
*1020 ×
 1.12 ** Description of Artificial Sequence: primer
      TDF.339c-S1
+ 41m+ 143
tatoggtasa gotasgaasa caagaasgtt tggcotogta cagotgasgo ttogtaogo 59
\pm 1.11 \oplus \pm 1.44
\pm 0.011 \times 62
HILL DIA
HAMA: Artificial Sequence
4221.
4323 - Description of Artificial Sequence: primer
       TDF.339c-S2
4400 - 144
taaaagabat otggbaattt ttoaatgacg tatgogtgac goataggoba otagtggato 60
tд
```

```
H2105 145
4.711: 59
-:L1:: ENA
WL130 Artificial Sequence
+12200+
Hill: Description of Artificial Sequence: primer
      YDE413c-S1
+14000 - 145
ttdrttqqtt tattetteqt teatttttqq teaaatatet cagetgaage ttegtaege 59
H110 - 146
411114 61
HALLES DEA
HALLS Artificial Sequence
Laber Description of Artificial Sequence: primer
      YDF.413:-S2
1437 - 146
_{
m advantaqaaa} gcacaagagt ttattaagga gcaggaaagg gcataggcca ctagtggatc 60
20
<2108 147
H211H 59
HIII - DNA
LLIF Artificial Sequence
Hall 30 Description of Artificial Sequence: primer
      YDF429c-S1
<400 147
totagatota toattacata caaqattgaa gacqqtqtca caqctgaagc ttcqtacqc 59
-.21 - 148
-11111 H.
-DIL - DIA
Alls Artificial Sequence
+1.7.1\,\mathrm{GeV}
HARBY Description of Artificial Sequence: primer
      YDE429c-S2
714005 148
tiloittytt totaacgada gaaadtotty gaatgggtyd gdataggoda otagtggato 60
•:ব
                                                                      62
H2105 149
42118 59
H2125 DNA
<!!!! Artificial Sequence</pre>
4:210 ·
R223 Description of Artificial Sequence: primer
```

YFR468c-S1

H4000 gtdaba	149 atac tgctggtgat gacgatcaag aggaggaaat cagctgaagc	ttcgtacgc	59
<pre><210+ <211+ <212+ <213+ </pre>	62		
S.E. C. S.E. 3.4	Description of Artificial Sequence: primer YMF134w-S.		
(4π)(tqtqtç tq	150 grąty octaectyca tytatycatt tagcaattya gcatagycca	ctagtggatc	60 62
0.16. 0111 - 0112 - 0.13.			
H2261+ H2331+	Description of Artificial Sequence: primer YDR468c-S2		
nd Gaedat Hiji)	191 ogada ataaqaagto otatadaada atogtogtat goataggoda	ctagtggatc	60 62
0010+ 0211+ 0012+ 0113+	59		
- 221 - - 233 -	Description of Artificial Sequence: primer YDF489w-S1		
.410. astac:	152 daka gagatgoaaa tacaatagtg ggttegteet cagetgaage	ttcgtacgc	59
+ (11) +			
4020 + 4023 +	Description of Artificial Sequence: primer YDR527w-S1		
41400 - 0000a0 03	153 degre tigittecat aaccaaagig catcaatage geataggeea	ctagtggatc	60 62
-1310 -	154		

```
<:211> 59
32125 DNA
+1113> Artificial Sequence
·...200
#223: Description of Artificial Sequence: primer
      YUR288w-S1
-14( (b) 154
atquatteta tagataatga cagegatgtg gatttaacag cagetgaage ttegtaege 59
R0.100 155
401104 ED
4112 FIA
40.13 Art:ficial Sequence
1. 11.
1273 - Description of Artificial Sequence: primer
      YD:F.188w-S1
2400 - 155
quecatqui, tottqcacca attittcaag agactotagt gcataggoca ctagtggato 60
H0010 - 156
-1311 - Ea
HALL - INA
Hill3> Artificial Sequence
3.75
+323> Description of Artificial Sequence: primer
      YDF201w-S1
-400-156
Budangtonia qactattoaq aqcatcatoq toatocatac cagotgaago ttogtaogo 59
1017 - 197
4211 - K.
INA
Rolls Artificial Sequence
41.1.105
#223 Fescription of Artificial Sequence: primer
      YDF201w-S2
-(400 · 157
Hamaggitt toogtttagt toocgaatat gatgttgaaa goataggooa otagtggato 60
                                                                     62
÷ 7
H210× 158
4311 - 59
4212 FNA
<213 Artificial Sequence
<.:20 +
<223 Description of Artificial Sequence: primer
      TDR434w-S1
```

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<4000-158
atqueeaatq caaatetaaq aaaatqqqtt qqtttttqct caqetqaaqe ttegtacge 59
H210H 159
-:211:- 59
H10120 DNA
Antificial Sequence
HARBY Description of Artificial Sequence: primer
      YML023c-S1
34 807 159
pandraatog tigdadattat ittigtigaad idaditgagaa dagotgaago itdegtaogo 59
H2200-160
-001110 61
en libe ina
Artificial Sequence
\cdot ( ) .
HIMB: Description of Artificial Sequence: primer
      YDF:434w-S2
HI4 100: 160
tamaqqtama tacacaqota toatqtqoto ttgtqqqaaq goataqqoca otaqtqqato 60
*; (;
HIII 28 161
HIIIN 59
\{(1,1,1)\} \in \mathrm{DNA}
4.13 Artificial Sequence
Hilly Description of Artificial Sequence: primer
      YDF:181c-S1
34000-161
adgataaacc caaatgotgg acatotaagg aaatotaagt cagotgaago ttogtacgo 59
42100-162
47.1114 62
HIME - CITIE
4.13 Artificial Sequence
ROBERT Description of Artificial Sequence: primer
      YDE181c-S2
3400-162
\pm agttgggtt tgaatcgtta tcacgggaga acattgcttt gcataggcca ctagtggatc 60
104
-0.10 \cdot 163
4.111 - 59
4212 - DNA
```

32130 Artificial Sequence 41225. HARRY Description of Artificial Sequence: primer YDF:531w-S1 84900 163 atgoogegaa ttactcaaga gatatettac aattgegatt cagetgaage ttegtaege 59 3.10.164 +1.11 + F.T +1.11 + ENTA 17.15 Artificial Sequence 11.11 HIBB: Description of Artificial Sequence: primer YDR531w-S2 4440 164 maataaqota titigoocaat atigitiggag atggogaata goataggoca otagiiggato 60 5.0 AL 1904 165 41.11 33 illi DiA Hilly Artificial Sequence -12200-RELEASE Description of Artificial Sequence: primer YLF186w-S1 344 CH 168 starr.carca agaagaaaac cogtaaaato gtaggtoatg cagotgaago ttogtaogo 59 9210-166 -:::::::- 62 -:::::::- ENA +2135 Artificial Sequence 3. <u>2. 2</u> 3.3 State Control of Artificial Sequence: primer YEF186w-S2 240 0 166 atadaaaqag gatgocaagt agacttaaac adtataaaat goataggoca dtagtggato 60 H217H 167 10.110 59 1. I. P. ENA 21 - Artificial Sequence 412211E SLUGG Description of Artificial Sequence: primer YDF.472w-S1

 $< 4 \cup 1 + 167$

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itytotoaaa gaataattoa accaagogoa totgaccaao cagotgaago ttogtacgo 59
H0100 168
·1.111: 59
1.1. DNA
Hill: Artificial Sequence
-1127
3.23 Description of Artificial Sequence: primer
      YLE215c-S1
-,4() -- 1+j5
tratitatig atgreetead aagaatatad aacttitata dagotgaago tiogtacgo 59
\pm 111. \pm 169
-1111 KA
-1.111 DNA
WILLS: Artificial Sequence
· 1 1 1 1 -
3.23 Description of Artificial Sequence: primer
      YLE215c-S2
-140 2 - 169
adototogga tigottoagg atttaaacta gottotaoga goataggoda otagtggato 60
50
9217-170
-:111:- 59
H. I. B DNA
+1114 Artificial Sequence
412% Description of Artificial Sequence: primer
      YMF.049c-S1
<400× 170
bagaptantg attactitat gacoggitag titotitagi cagotgaago tiogiacgo 59
+.10 - 111
1110 + 61
el Luie DNA
-0.130 Artificial Sequence
-1. 200-
H123: Description of Artificial Sequence: primer
      YLR243w-52
+40-0-171
gatastatgg titletatact gleaggatta tlagattoca gealaggeda clagtggate 60
62
-1.101-172
+17.111 60
1.1.1 DNA
+213 · Artificial Sequence
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</1200-*123 Description of Artificial Sequence: primer YLP272c-S2 44000-171 jar.aactgac ticgitacti tatgagatgi coggettiag geataggeea ctagtggate 60 ·. (3 4.13.4273 40010 ED HILLS INA <: 13 Artificial Sequence</pre> ACLIBATION of Artificial Sequence: primer YML023c-S2 <4000 173 $_{
m H^{+}\,Agttact}$ tattotataa ttacactttt atcatgaacg gcataggcca ctagtggatc $_{
m 60}$ *; cr 4210-174 421174 62 HIMIDS DNA -7113 - Artificial Sequence 31.11 +dm3+ Description of Artificial Sequence: primer YEA-222:-SE 44014 174 Hatatgtaac titgitcaac taagttatca accettgtga goataggoca ctagtggatc 60 100 3010s 175 40111 62 RILL - IMA Walt: Artificial Sequence -1, 10× HIDF. Description of Artificial Sequence: primer YDR499c-SI 1111 ognastitas tigoattait ofocosytto tittattoaa yeatayyooa etaytyyaty 60 62 • 4 11117 - 176 4011 - 82 KOTI - DNA 8013 · Artificial Sequence <2220> (223) Description of Artificial Sequence: primer YLR317w-S2 -:4)」→ 176

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gaagtaaact aactagtaaa gtaggetaat tegaaaegat geataggeea etagtggate 60 tg -121@> 177 H00115 62 THIE DNA ..1 0 Artificial Sequence 41.12414 4023 Description of Artificial Sequence: primer YIR472w-Sl 414000 177 aggesaatet caaacettee etgteaagea ettgeetgte geataggeea etagtggatg 60 - 4 41.104.178 $\{(1,1,1),\ldots,(1,r)$ H. I. B. INA a. 100 Artificial Sequence Harris Description of Artificial Sequence: primer YDE489w-SI 5.4000 17年 $_{
m HM}$ aggrees atotatoatg titacgotac citotgiato goataggeoa ciagitggato $_{
m 50}$ ρ́.? 4.1102 179 40.1111- 39 HILLIS DHA R213/ Artificial Sequence $\{1, 1, 1, 1, \dots \}$ Hills - Description of Artificial Sequence: primer YDE.527w-SI 340 m 179 atqyacttac tgggcgatat agtggagaaa gatacatotg cagotgaago ttogtacgo 59 40.10×180 4.11 - 6.5 $1.~1..~ \cdot~ \mathrm{DNA}$ 1.15 Artificial Sequence 41.11.11 4.23 Description of Artificial Sequence: primer YPR137w-SJ 4400 150 awaayootyt ttggtcaatg acagotgaat atataccatt gcataggoca stagtggato 60 62 :q $-0.013 \cdot 141$ H0011 - 50 <212 - DNA

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-:213> Artificial Sequence
-12203-
-2.3 Description of Artificial Sequence: primer
.∴. ೧ -
+ J. 1 + modified base
3.113 a, t, c or g
-400 \times 181
                                                                       50
gagagagaga gagagagaga actagtnnnn nntttttttt tttttttt
\pm 1110 + 182
40.10 - 13
-111 - DNA
Halls Artificial Sequence
402264
-::::: Description of Artificial Sequence: primer
11.
+1.121 \cdot modified base
-.101 · (1:..(5)
Hillis a, t, c or g
-1400 + 162
                                                                       13
himininggoad gag
H210> 183
· 211 · 24
<212 - DNA
+ 213 · Artificial Sequence
+ AAA - Description of Artificial Sequence: primer PK3
+400 + 183
goggoogdaa ggootocatg goog
                                                                       24
+210 \times 184
+211+ 32
. . . . . INA
 . 1 . Artificial Sequence
+2224 Description of Artificial Sequence: primer PK4
+ 400> 154
                                                                       32
gatooggoda tggaggodtt goggodgotg ca
H210 185
11 40
-...13 - DNA
<!!!!! Artificial Sequence</pre>
-(22°).>
```

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COOS Description of Artificial Sequence: primer PK9	
ារ៉ាប់យុខ 185 atotycagog geogeaaaca tgagaattgg gtaataactg	40
000100 186 000100 47 00100 DNA 00100 Artificial Sequence	
022000 022000 Description of Artificial Sequence: primer PK10	
04000-186 atggatesgg ceatggagge etteaagaat tagettttea atteate	47
#0.160 187 #0.110 25 #0.110 DNA #0.130 Artificial Sequence	
Substitution of Artificial Sequence: primer YML114-c-Asp718	
<pre>- 4000 187 gotggtabde gtoggtotot ttacc</pre>	.25
0210> 188 02110 27 02120 DNA 0213> Artificial Sequence	
<pre>% 22 %* % 1. %* Description of Artificial Sequence: primer</pre>	
<pre>+400+ 188 ttgggaattca ttgcccttta tgagtcc</pre>	27
+210+189 +211+25 +210+ENA -213-Artificial Sequence	
+ 2100 + 2003 + Description of Artificial Sequence: primer YML114c-BamHI	
400. 189 atogatog ccaacaatga cagog	25
+217+140 HZ11+ 25 HZ12+ DNA HZ13+ Artificial Sequence	

+1220b +2.23 Description of Artificial Sequence: primer YML114c-SacI -:4000 190 25 qttqugctct gagcgtttgt ccttg +2100 · 191 ·:2112 4 +32120+ PRT +2213: Artificial Sequence 1.120. 1.223: Description of Artificial Sequence: Synthetic peptide -:400:- 191 Asp Glu Ala Asp 1